SERIES 4

Plasma TV

user manual

imagine the possibilities

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User Instructions

- **Screen Image retention**

  Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as “screen burn”. To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

- **Height**

  The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height so do not install and operate there.

- **Heat on the top of the PDP TV**

  The top side of the product may be hot after long period of use as heat dissipates from the panel through the vent hole in the upper part of the product. This is normal and does not indicate any defect or operation failure of the product. However, children should be prevented from touching the upper part of the product.

- **The product is making a ‘cracking’ noise.**

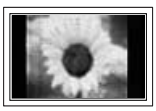
  A ‘cracking’ noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

- **Cell Defects**

  The PDP uses a panel consisting of 2,360,000(HD-level) to 6,221,000(FHD-level) pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

- **Avoid operating the TV at temperatures below 5°C(41°F)**

- **A still image displayed too long may cause permanent damage to the PDP Panel.**

  Watching the PDP TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.

- **Afterimage on the Screen.**

  Displaying still images from Video games and PC for longer than a certain period of time may produce partial afterimages.
  To prevent this effect, reduce the ‘brightness’ and ‘contrast’ when displaying still images.

- **Warranty**
  - Warranty does not cover any damage caused by image retention.
  - Burn-in is not covered by the warranty.

- **Installation**

  Be sure to contact an authorized service centre, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substance and where it operates continually such as the airport, the train station etc. Failure to do so may cause a serious damage to your set.

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Symbol	Press	Note	One-Touch Button	TOOLS

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Connecting and Preparing Your TV

Checking Parts

Owner's Instructions

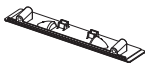
Remote Control/
AAA Batteries (2ea)

Power Cord

Cloth-Clean

Warranty Card/Safety Guide Manual
(Not available in all locations)

Screw (4ea)

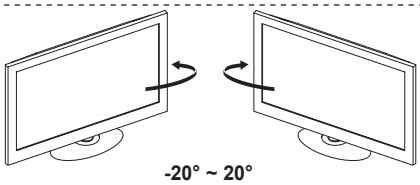


Cover-Bottom

Holder-Ring (4ea)
(Refer to page 25)

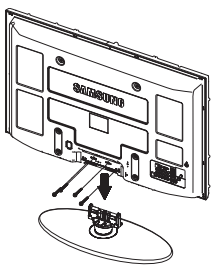
Using the Stand-Base

- Two or more people should carry the PDP. Never lay the PDP on the floor because of possible damage to the screen. Always keep the PDP upright.
- The PDP can rotate 20 degrees in right and left directions.



How to assemble the Stand-Base (depending on the model)

Using the 4 screws for securing the stand base and the monitor, firmly attach the monitor to the stand base.
(The exterior of the set may be different than the picture.)

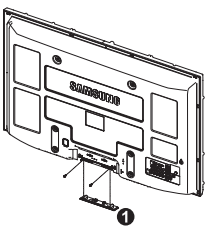


Warning

Firmly secure the stand to the TV before moving it, as the stand may fall and could cause serious injury.

- Two or more people should carry the TV. Never lay the TV on the floor because of possible damage to the screen. Always store the TV upright.

In case of installing your TV on the wall, close the cover (❶) on the stand-base connection part using two screws for hiding.



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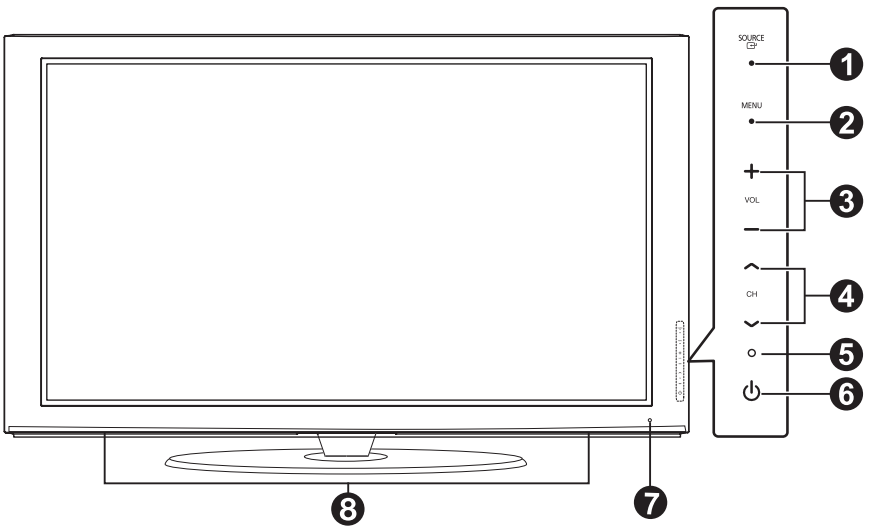
Viewing the Control Panel



The product colour and shape may vary depending on the model.

Front Panel buttons

Touch each button to operate.

❶ **SOURCE**
Toggles between all the available input sources (**TV**, **AV**, **Component1**, **Component2**, **HDMI1**, **HDMI2/DVI**).

In the on-screen menu, use this button as you would use the **ENTER** button on the remote control.

❷ **MENU**
Press to see an on-screen menu of your TV's features.

❸ **+ VOL -**
Press to increase or decrease the volume. In the on-screen menu, use the **+ VOL -** buttons as you would use the ◄ and ► buttons on the remote control.

❹ **∧ CH ∨**
Press to change channels. In the on-screen menu, use the **∧ CH ∨** buttons as you would use the ▲ and ▼ buttons on the remote control.

❺ **POWER INDICATOR**
Blinks and turns off when the power is on and lights up in stand-by mode.

❻ **⏻ (POWER)**
Press to turn the TV on and off.

❼ **REMOTE CONTROL SENSOR**
Aim the remote control towards this spot on the TV.

❽ **SPEAKERS**

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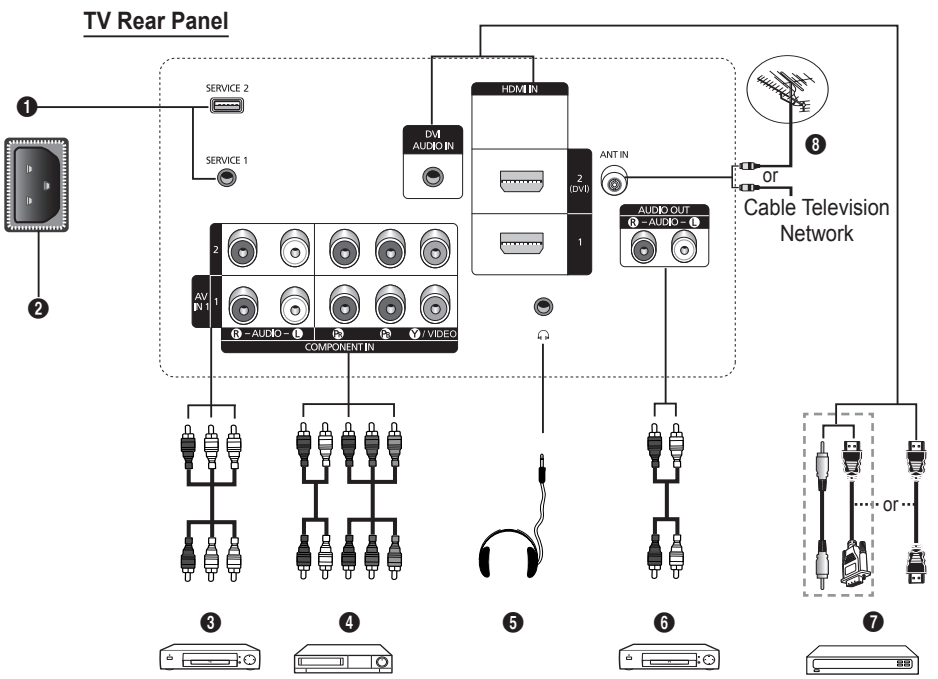
Viewing the Connection Panel



The product colour and shape may vary depending on the model.

Whenever you connect an audio or video system to your set, ensure that all elements are switched off.

When connecting an external device, match the colour of the connection terminal to the cable.

❶ **SERVICE 1, 2**
Connector for service.

❷ **POWER IN**
Connect the supplied power cord.

❸ **AV IN 1 (AUDIO R/L / VIDEO)**
Video and audio inputs for external devices, such as a camcorder or VCR.

❹ **COMPONENT IN 1, 2**
Audio (AUDIO R/L) and video (Y/PB/PR) inputs for Component.

❺ **HEADPHONES JACK**
You can connect a set of headphones if you wish to watch a television programme without disturbing the other people in the room.

Prolonged use of headphones at a high volume may damage your hearing

❻ **AUDIO OUT (AUDIO R/L)**
Connect RCA audio signals from the TV to an external source, such as Audio equipment.

❼ **HDMI IN 1, 2(DVI)**
- No additional Audio connection is needed for an HDMI to HDMI connection.
- Whenusing an HDMI/DVI cable connection, you must use the HDMI IN 2(DVI) jack.

What is HDMI?
- "High Definition Multimedia interface" allows the transmission of high definition digital video data and multiple channels of digital audio.
- The HDMI/DVI terminal supports DVI connection to an extended device with the appropriate cable (not supplied). The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi - channel digital audio.

DVI AUDIO IN
DVI audio outputs for external devices.

❽ **ANT IN**
75Ω Coaxial connector for Air/Cable Network.

Supported modes for HDMI/DVI and Component

	480i	480p	576i	576p	720p	1080i	1080p
HDMI/DVI 50Hz	X	X	X	O	O	O	O
HDMI/DVI 60Hz	X	O	X	X	O	O	O
Component	O	O	O	O	O	O	O

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Remote Control

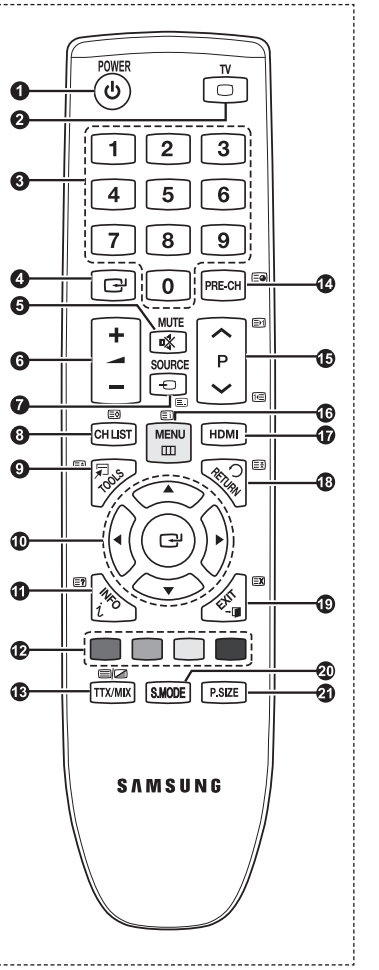
You can use the remote control up to a distance of about 23 feet from the TV.

The performance of the remote control may be affected by bright light.

1. POWER button (turns the TV on and off)
2. Selects the TV mode directly.
3. Number buttons for direct channel access
4. Use to select on-screen menu items
5. Temporary sound switch-off
6. [+] Volume increase
   [−] Volume decrease
7. Available source selection
8. Channel control button
9. Use to quickly select frequently used functions.
10. Control the cursor in the menu
11. Use to see information on the current broadcast
12. Use these buttons in the Channel list, etc.
13. Previous channel
14. [^] Next channel
    [v] Previous channel
15. Displays the main on-screen menu
16. Selects the HDMI mode directly
17. Returns to the previous menu
18. Exit the on-screen menu
19. Press to select the sound mode.
20. Picture size selection

Teletext Functions

2. Exit from the teletext display (depending on the model)
7. Teletext mode selection (LIST/FLOF)
8. Teletext store
9. Teletext size
11. Teletext reveal
12. Fastext topic selection
13. Teletext display/mix both teletext information and the normal broadcast
14. Teletext sub page
15. P [^] :Teletext next page
    P [v] :Teletext previous page
16. Teletext index
18. Teletext hold
19. Teletext cancel



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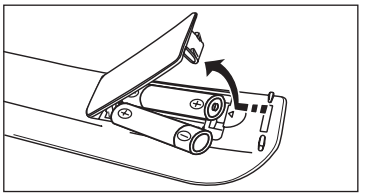
Installing Batteries in the Remote Control



1. Lift the cover at the back of the remote control upward as shown in the figure.
2. Install two AAA size batteries.
   - Make sure to match the '+' and '–' ends of the batteries with the diagram inside the compartment.
3. Close the cover.
   - Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

- If the remote control doesn't work, check the following
  1. Is the TV power on?
  2. Are the plus and minus ends of the batteries reversed?
  3. Are the batteries drained?
  4. Is there a power outage or is the power cord unplugged?
  5. Is there a special fluorescent light or neon sign nearby?

Switching On and Off

The mains lead is attached to the rear of your set.

1. Plug the mains lead into an appropriate socket.
   - The standby indicator lights up on your set.
2. Press the **POWER**⏻ button on your set.
   - You also can press the **POWER**⏻ button or the **TV** button on the remote control to turn the TV on. The programme that you were watching last is reselected automatically.
3. Press the numeric button (0~9) or channel up / down (∧ / ∨) button on the remote control or ∧ **CH** ∨ button on your set.
   - When you switch the set on for the very first time, you will be asked to choose language in which the menus are to be displayed.
4. To switch your set off, press the **POWER**⏻ button again.

Placing Your Television in Standby Mode

Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

1. Press the **POWER**⏻ button on the remote control.
   - The screen is turned off and a red standby indicator appears on your set.
2. To switch your set back on, simply press the **POWER**⏻, numeric buttons (0~9), **TV** button or channel up / down (∧ / ∨) button again.
   - Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example). It is best to unplug the set from the mains and aerial.

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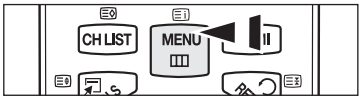
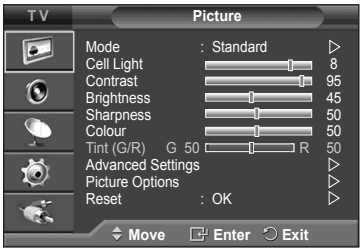
Viewing the Menus

1. With the power on, press the **MENU** button. The main menu appears on the screen. The menu's left side has icons: **Picture, Sound, Channel, Setup, Input**.
2. Press the ▲ or ▼ button to select one of the icons. Then press the **ENTER** button to access the icon's sub-menu.
3. Press the **EXIT** button to exit.

The on-screen menus disappear from the screen after about one minute.



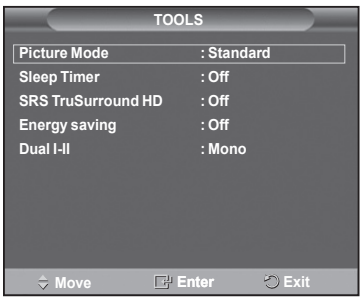


Using the TOOLS Button

You can use the **TOOLS** button to select your frequently used functions quickly and easily. The **TOOLS** menu changes depending on which external input mode you are viewing.

1. Press the **TOOLS** button. The **TOOLS** menu will appear.
2. Press the ▲ or ▼ button to select a menu, then press the **ENTER** button.
3. Press the ▲ / ▼ / ◄ / ► / **ENTER** buttons to display, change, or use the selected items. For a more detailed description of each function, refer to the corresponding page.

- Picture Mode, see page 13
- Sleep Timer, see page 20
- SRS TruSurround HD, see page 16
- Energy saving, see page 18
- Dual I-II, see page 17



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Plug & Play Feature

When the TV is initially powered on, basic settings proceed automatically and subsequently.

- The Screen Saver is activated if there is no remote control key input for longer than 1 minute while Plug & Play is running.
- The Screen Saver is activated if there is no operating signal for longer than 15 minutes.

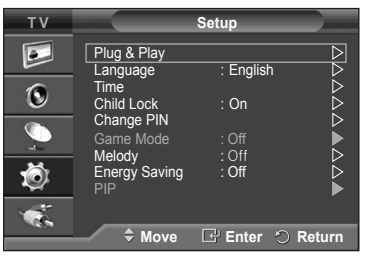
1. Press the **POWER** button on the remote control. **Menu Language** menu is displayed.
2. Select the appropriate language by pressing the ▲ or ▼ button. Press the **ENTER** button. The message **Select 'Home Use' when installing this TV in your home**. is displayed.
3. Press the ◄ or ► button to select **Store Demo** or **Home Use**, then the **ENTER** button.
   - We recommend setting the TV to **Home Use** mode for the best picture in your home environment.
   - **Store Demo** mode is only intended for use in retail environments.
   - If the unit is accidentally set to **Store Demo** mode and you want to return to **Home Use** (Standard): Press the Volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.
4. The message **Check antenna input**. is displayed with **OK** selected. Press the **ENTER** button. **Area** menu is displayed.
5. Select your country or area by pressing the ▲ or ▼ button, then press the **ENTER** button. **Auto Store** menu is displayed.
6. Press the **ENTER** button to start search the channels. The channel search will start automatically. After all the available channels are stored, **Clock Set** menu is automatically displayed.
   - To stop the search before it has finished, press the **ENTER** button with **Stop** selected.
7. Press the ◄ or ► button to select **Month**, **Day**, **Year**, **Hour**, **Minute**, or **am/pm**. Set these by pressing the ▲ or ▼ button.
   - You can set the **Month**, **Day**, **Year**, **Hour**, and **Minute** directly by pressing the numeric buttons on the remote control.
8. Press the **ENTER** button to confirm your setting.

   The message **Enjoy your TV**. is displayed.
   When you have finished, press the **ENTER** button.

(Differs in each country)

If you want to reset this feature...

1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER** button.
3. Press the **ENTER** button again to select **Plug & Play**.
   The message **Start Plug & Play**. is displayed.



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Channel Control

Storing Channels

❑ Area

You can change the desired area.

❑ Auto Store

Scans for all channels with active broadcast stations (and availability depends on your country) and stores them in the TV's memory.

❑ Manual Store

Scans for a channel manually and stores it in the TV's memory.

- **Programme** (Programme number to be assigned to a channel): Sets the programme number using the ▲, ▼ or number (0~9) buttons.
- **Colour System** → **Auto / PAL / SECAM / NTSC4.43 / NTSC 3.58**: Sets the colour system value using the ▲ or ▼ button.
- **Sound System** → **BG / DK / I / M**: Sets the sound system value using the ▲ or ▼ button.
- **Channel** (When you know the number of the channel to be stored): Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel). Press the ► button, then press the ▲, ▼ or number (**0~9**) buttons to select the required number.

  ✎ You can also select the channel number directly by pressing the number (**0~9**) buttons.

  ✎ If there is abnormal sound or no sound, reselect the sound standard required.
- **Search** (When you do not know the channel numbers): Press the ▲ or ▼ button to start the search. The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.
- **Store** (When you store the channel and associated programme number): Set to **OK** by pressing the **ENTER** button.

✎ Channel mode
- **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
- **C** (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
- **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

❑ Fine Tune

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.

✎ Fine tuned channels that have been saved are marked with an asterisk *.

✎ If you do not store the fine-tuned channel in memory, adjustments are not saved.

✎ To reset the fine-tuning, select **Reset** by pressing the ▼ button and then press the **ENTER** button.

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Managing Channels

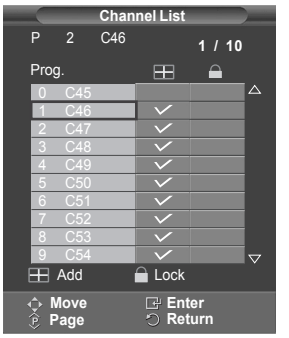
Using the Channel Manager, you can conveniently add/delete or lock/unlock channels.

❑ Channel List

Adding / Deleting channels

Using the Channel List, you can add or delete channels.

- Move to the (⊟) field by pressing the ▲/▼/◄/► buttons, select a channel to be added, and press the **ENTER** button to add the channel.
- If you press the **ENTER** button again, the (✓) symbol next to the channel disappears and the channel is not added.



Locking / Unlocking channels

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio. This function is available only when the **Child Lock** is set to **on**. (see page 18)

- Move to the (🔒) field by pressing the ▲/▼/◄/► buttons, select a channel to be locked, and press the **ENTER** button.
- The PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is '0-0-0-0'. You can change the PIN, by selecting **Change PIN** from the menu.
- If you press the **ENTER** button again, the (✓) symbol next to the channel disappears and the channel lock is canceled.
- A blue screen is displayed when **Child Lock** is activated.
- You can select these options simply by pressing the **CH LIST** button on the remote control.

❑ Sort

This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store.

❑ Name

Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.

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Picture Control

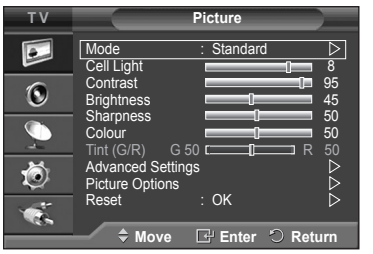
Changing the Picture Settings

❑ Mode

You can select the type of picture which best corresponds to your viewing requirements.

- **Dynamic**: Selects the picture for high-definition in a bright room.
- **Standard**: Selects the picture for the optimum display in a normal environment.
- **Movie**: Selects the picture for viewing movies in a dark room.

Press the **TOOLS** button to display **TOOLS** menu.
You can also set the picture mode by selecting **TOOLS** → **Picture Mode**.



❑ Cell Light / Contrast / Brightness / Sharpness / Colour / Tint (G/R)

Your television has several setting options that allow you to control the picture quality.

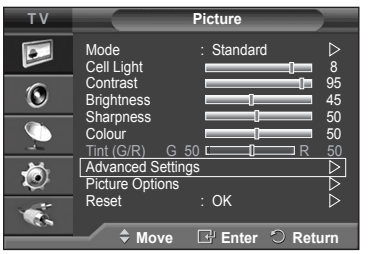
- **Cell Light**: Adjusts the pixel brightness.
- **Contrast**: Adjusts the contrast level of the picture.
- **Brightness**: Adjusts the brightness level of the picture.
- **Sharpness**: Adjusts the edge definition of the picture.
- **Colour**: Adjusts Colour saturation of the picture.
- **Tint (G/R)**: Adjusts the Colour tint of the picture.

Select a picture mode to be adjusted first. The adjusted values are saved for each picture mode.
When you make changes to **Cell Light**, **Contrast**, **Brightness**, **Sharpness**, **Colour,** or **Tint (G/R)**, the OSD will be adjusted accordingly.
In TV, AV modes of the PAL system, you cannot use the Tint Function.
Settings can be adjusted and stored for each external device you have connected to an input of the TV.
The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and then this will reduce the overall running cost.

❑ Advanced Settings

You can adjust the Advanced Settings for your screen including the colour and contrast.

Advanced Settings is available in **Standard** or **Movie** mode.



Black Tone → Off / Dark / Darker / Darkest
You can select the black level on the screen to adjust the screen depth.

Dynamic Contrast → Off / Low / Medium / High
You can adjust the screen contrast so that the optimal contrast is provided.

Gamma
You can adjust the primary colour (Red, Green, Blue) Intensity.

Colour Space
Colour Space is a colour matrix composed of red, green and blue colours. Select your favourite colour space to experience the most natural colour.

- **Auto**: Automatically sets the colour range depending on the input video source.
- **Native**: Sets the colour range wider than the that of the input video source.

White Balance
You can adjust the colour temperature for more natural picture colours.

- **R-Offset / G-Offset / B-Offset / R-Gain / G-Gain / B-Gain**: Changing the adjustment value will refresh the adjusted screen.
- **Reset**: The previously adjusted white balance will be reset to the factory defaults.

Flesh Tone
You can adjust the flesh tone to be more or less red.

Changing the adjustment value will refresh the adjusted screen.

Edge Enhancement → Off / On
You can emphasize object boundaries in the picture.

Continued...

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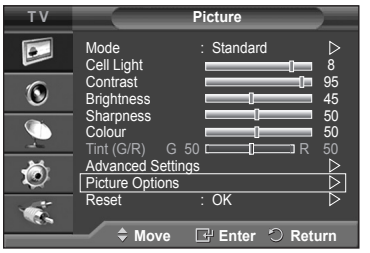
❑ Picture Options

You can customize the additional picture settings to suit your preference.



Colour Tone → Cool / Normal / Warm1 / Warm2

You can select the most comfortable colour tone to your eyes.

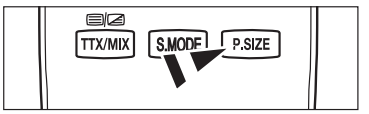
- The adjusted values are stored according to the selected **Picture** mode.
- **Warm1** or **Warm2** is only activated when the picture mode is **Movie**.

Size

You can select the picture size which best corresponds to your viewing requirements.

- **16:9**: Adjusts the picture size to 16:9 appropriate for DVDs or wide broadcasting.
- **Wide Zoom**: Magnify the size of the picture more than 4:3.
- **Zoom**: Magnifies the 16:9 wide picture (in the vertical direction) to fit the screen size.
- **4:3**: This is the default setting for a video movie or normal broadcasting.
- **Screen Fit**: Use the function to see the full image without any cutoff when **HDMI** (720p / 1080i / 1080p) or **Component** (1080i / 1080p) signals are input.
  - The picture size options may vary depending on the input source.
  - The items available may differ depending on the selected mode.
  - Settings can be adjusted and stored for each external device you have connected to an input of the TV.
  - Temporary image retention may occur when viewing a static image on the set for more than two hours.
  - **Wide Zoom**: Press the ► button to select , then press the **ENTER** button. Press the ▲ or ▼ button to move the screen up / down. Then press the **ENTER** button.
  - **Zoom**: Press the ► button to select , then press the **ENTER** button. Press the ▲ or ▼ button to move the picture up and down. Then press the **ENTER** button. Press the ► button to select , then press the **ENTER** button. Press the ▲ or ▼ button to magnify or reduce the picture size in the vertical direction. Then press the **ENTER** button.
  - After selecting **Screen Fit** in **HDMI** (720p / 1080i / 1080p) or **Component** (1080i / 1080p) mode: Select **Position** by pressing the ◄ or ►button. Use the ▲, ▼, ◄ or ► button to move the picture.
  - **Reset**: Press the ◄ or ► button to select **Reset**, then press the **ENTER** button. You can initialize the setting.
  - If you use the **Screen Fit** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.

You can select these options simply by pressing the **P.SIZE** button on the remote control.



Digital NR → Off / Low / Medium / High / Auto

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

- When the signal is weak, select one of the other options until the best picture is displayed.

HDMI Black Level → Normal / Low

You can directly select the black level on the screen to adjust the screen depth.

- This function is active only when the external input connects to HDMI (RGB signals).

Film Mode

You can optimize the picture mode for watching movies.

- **Off** : Turn the Film Mode function off.
- **Auto**: Automatically adjusts the picture for the best quality when watching a film.

Film mode is supported in TV, Video, Component(480i / 576i / 1080i) and HDMI(1080i).

Continued...

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Screen Burn Protection

Configures the Screen Burn Protection Options to prevent and reduce pixel burn.

When an image remains in one position too long, it may cause a permanent burn on the screen.

- **Pixel Shift**: To reduce the possibility of screen burn, this unit is equipped with screen burn prevention technology. This technology enables you to set picture movement up/down (Vertical Line) and side to side (Horizontal). The Time setting allows you to program the time between movement of the picture in minutes.
  - Set **Pixel Shift** to On by pressing the ▲ or ▼ button, then press the **ENTER** button.
  - Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button.
  - Available options: **Horizontal, Vertical, Time**.
  - Optimum condition for pixel shift

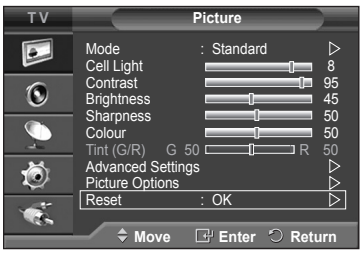
	Item	TV/AV/Component/HDMI
Horizontal	0~4	2
Vertical	0~4	2
Time (min)	1~4 min	2 min

  - The Pixel Shift value may differ depending on the monitor size (inches) and mode.
  - This function is not available in the **Screen Fit** mode.
- **Scrolling**: This function helps remove after images on the screen by moving all the pixels on the PDP according to a pattern Use this function when there are remaining after images or symbols on the screen especially when you displayed a still image on the screen for a long time.
- **Side Grey**: When you watch TV with the screen ratio of 4:3, the screen is prevented from any damage by adjusting the white balance on both extreme left and right sides.
  - **Dark**: When you set the screen ratio to 4:3, it darkens the left and right sides.
  - **Light**: When you set the screen ratio to 4:3, it brightens the left and right sides.

❑ Reset → OK / Cancel

Resets all picture settings to the default values.

- Select a picture mode to be reset. The reset is performed for each picture mode.



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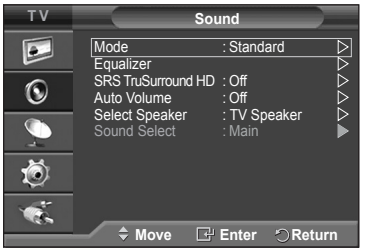
Sound Control

Changing the Sound Setting

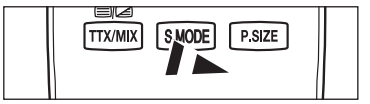
❑ Mode



You can select the type of special sound effect to be used when watching a given broadcast.

- **Standard**: Selects the normal sound mode.
- **Music**: Emphasizes music over voices.
- **Movie**: Provides the best sound for movies.
- **Clear Voice**: Emphasizes voice over other sounds.
- **Custom**: Recalls your customized sound settings. (see Customizing the Sound)

You can select these options simply by pressing the **S.MODE** button on the remote control.



❑ Equalizer

The sound settings can be adjusted to suit your personal preferences.

- **Balance**: Controls the balance between the right and left speakers.
- **100Hz / 300Hz / 1KHz / 3KHz / 10KHz** (Bandwidth Adjustment): To adjust the level of different bandwidth frequencies

❑ SRS TruSurround HD → Off / On

SRS TruSurround HD is the combined technology of TruSurround and FOCUS, TruBass.
SRS TruSurround HD is down mixing technology that makes the Surround Sound effect of virtual 5.1 channel via two speakers. This function provide not only rich deep bass at a
low-pitched sound but also improve the resolution at a high-pitched sound.

Press the **TOOLS** button to display **Tools** menu.
You can also set the SRS TruSurround HD by selecting **Tools** → **SRS TruSurround HD**.

If the sound is abnormal while TV is playing music, please adjust the equalizer and **SRS TruSurround HD** (**Off**/**On**).

SRS TruSurround HD DIGITAL

TruSurround HD, SRS and the (●) symbol are trademarks of SRS Labs, Inc.
TruSurround HD technology is incorporated under license from SRS Labs, Inc.

❑ Auto Volume → Off / On

Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

❑ Select Speaker → External Speaker / TV Speaker

If you want to hear the sound through separate speakers, cancel the internal amplifier.

The **–** **+**, **MUTE** buttons do not operate when the **Select Speaker** is set to **External Speaker**.

If you select **External Speaker** in the **Select Speaker** menu, the sound settings will be limited.

	TV's Internal Speakers	Audio Out (L / R Out) to Sound System
	TV / AV / Component / HDMI	TV / AV / Component / HDMI
TV Speaker	Speaker Output	Sound Output
External Speaker	Mute	Sound Output
Video No Signal	Mute	Mute

Continued...

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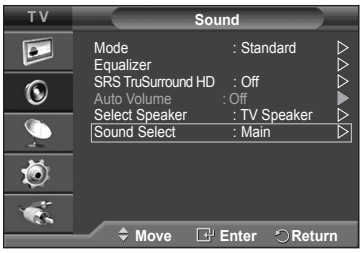
❑ Sound Select

When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture.

- **Main:** Use to listen to the sound of the main picture.
- **Sub**: Used to listen to the sound of the sub picture.



Selecting the Sound Mode

When you set to **Dual I II**, the current sound mode is displayed on the screen.

	Type of broadcast	On-screen indication
NICAM Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)
	Regular + NICAM Mono	**NICAM** ⟷ **Mono** (Normal)
	NICAM-Stereo	**NICAM Stereo** ⟷ **Mono** (Normal)
	NICAM Dual-I/II	**NICAM Dual-1** → **NICAM Dual-2** → **Mono** (Normal)
A2 Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)
	Bilingual or DUAL-I/II	**Dual I** ⟷ **Dual II**
	Stereo	**Stereo** ⟷ **Mono** (Forced mono)

- If the stereo signal is weak and an automatic switching occurs, then switch to the mono.
- This function is only activated in stereo sound signal. It is deactivated in mono sound signal.
- This function is only available in **TV** mode.

Press the **TOOLS** button to display **Tools** menu.
You can also set the Dual I II HD by selecting **Tools** → **Dual I II**.

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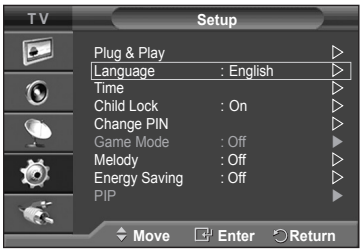
Function Description

Configuring the Setup Menu

❑ Language

It is variable depending on the model. When you start using the television for the first time, you must select the language which will be used for displaying menus and indications.



❑ Child Lock → Off / On

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio.

- Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is '0-0-0-0'. You can change the PIN by selecting **Change PIN** from the menu.
- You can lock some channels in Channel List. (refer to page 12)
- **Child Lock** is available only in TV mode. .

❑ Change PIN

You can change your personal ID number that is required to set up the TV.

- Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is '0-0-0-0'.
- If you forget the PIN code, press the remote control buttons in the following sequence, which resets the PIN to '0-0-0-0': **POWER** (Off), **MUTE, 8, 2, 4, POWER** (On).

❑ Game Mode

When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting the game menu.

When the Game Mode is On

- **Picture Mode** is automatically changed to **Standard** and users cannot change the mode.
- **Sound Mode** is automatically changed to **Custom** and users cannot change the mode. Adjust the sound using the equalizer.
- The Reset in the Sound menu is activated. Reset function initializes the Equalizer settings to the factory default setting.

- **Game Mode** is not available in regular TV mode or **Game Mode** set to **Off**.
- If the picture is poor when external device is connected to TV, check if Game Mode is On.
- This function supports only game function.
- If you display the TV menu in Game mode, the screen shakes slightly.
- The mark (🎮) appears on the screen which means that Game Mode is on with the selected source.

❑ Melody → Off / Low / Medium / High

The TV power on / off melody sound can be adjusted.

- **The Melody does not play**
  - When no sound is output from the TV because the **MUTE** button has been pressed.
  - When no sound is output from the TV because the – (Volume) button has been pressed.
  - When the TV is turned off by **Sleep Timer** function.

❑ Energy Saving

This feature adjusts the brightness of the TV in order to reduce power consumption. When watching TV at night, set the **Energy Saving** mode option to **High** to reduce eye fatigue as well as power consumption.

- **Off**: Turns off the energy saving function.
- **Low**: Sets the TV to low energy saving mode.
- **Medium**: Sets the TV to medium energy saving mode.
- **High**: Sets the TV to high energy saving mode.

Press the **TOOLS** button to display **TOOLS** menu.
You can also set the Energy Saving option by selecting **TOOLS** → **Energy Saving**.

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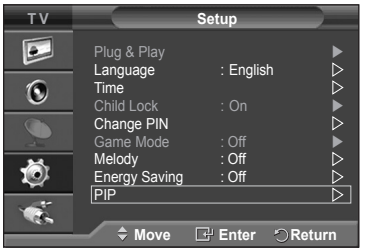
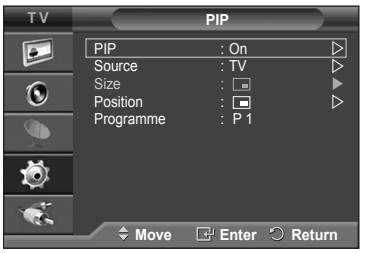
Viewing the Picture in Picture (PIP)

You can display a sub picture within the main picture of set programme or video input. In this way, you can watch the picture of set programme or video input from any connected equipment while watching the main picture.





You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.

Press the **TOOLS** button to display **TOOLS** menu. You can also configure PIP related settings by selecting **TOOLS** → **PIP**.

❑ PIP → On / Off

You can activate or deactivate the PIP function.

Main picture	Sub picture
Component1, Component2 HDMI1, HDMI2/DVI	TV, AV

- **Source → TV / AV**

  You can select a source of the sub-picture.

  You can select these options simply by pressing the **SOURCE** button on the remote control.

- **Size →** ▣ **/** ▣ **/** ▣

  You can select a size of the sub-picture.

  If main picture is in **Component** mode, **Size** is not available.

- **Position →** ▣ **/** ▣ **/** ▣ **/** ▣

  You can select a position of the sub-picture.

  In Double (▣ , ▣) mode, Position cannot be selected.

- **Programme**

  You can select a channel of the sub-picture only when the **Source** is set to **TV**.

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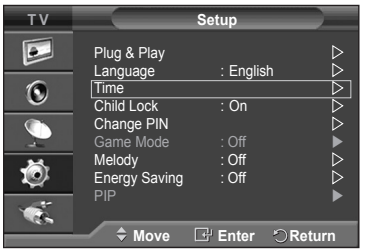
Setting the Time

Setting the clock is necessary in order to use the various timer features of the TV.

- The current time will appear every time you press the **INFO** button.
- If you disconnect the power cord, you have to set the clock again.



❑ Clock Set

You can set the current time manually.

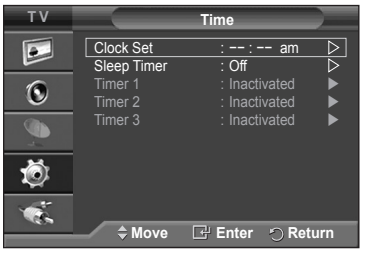
- You can set the **Month, Day, Year, Hour, Minute** directly by pressing the number buttons on the remote control.

❑ Sleep Timer → Off / 30min / 60min / 90min / 120min / 150min / 180min

The sleep timer automatically shuts off the TV after a preset time.

- The TV automatically switches to standby mode when the timer reaches 0.
- To cancel the **Sleep Timer** function, select **Off**.

> Press the **TOOLS** button to display **TOOLS** menu.
> You can also set the sleep timer by selecting **TOOLS** → **Sleep Timer**.



❑ Timer 1 / Timer 2 / Timer 3

Three different on / off timer settings can be made.

- **On Time**: **Set the hour, minute, am/pm and Activate/Inactivate.**
  (To activate timer with the setting you've chosen, set to **Activate**.)
- **Off Time**: **Set the hour, minute , am/pm and Activate / Inactivate.**
  (To activate timer with the setting you've chosen, set to **Activate**.)
- **Repeat**: **Select Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun.**
- **Volume**: Set the required volume level.
- **Programme :** When the On Time is active, you can turn on a specific channel.
  - You must set the clock first.
  - You can set the hour, minute and programme by pressing the number buttons on the remote control.
  - **Auto Power Off**
    When you set the timer On, the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by the timer. This function is only available in timer On mode and prevents overheating, which may occur if a TV is on for too long time.

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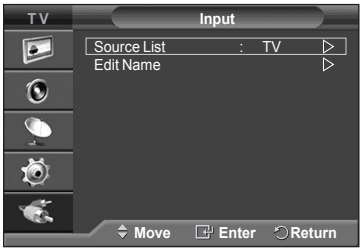
Source List / Edit Name

❑ Source List

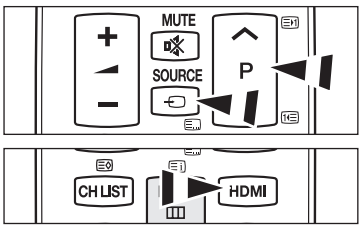
Use to select TV or other external input sources such as DVD players or Cable Box / Satellite receivers (Set-Top Box) connected to the TV. Use to select the input source of your choice.



- **TV**, **AV**, **Component1**, **Component2**, **HDMI1**, **HDMI2/DVI**.

  You can choose only those external devices that are connected to the TV.

  Press the **SOURCE** button on the remote control to view an external signal source. TV mode can be selected by pressing the **TV** button, number buttons (**0~9**), and the **P** ∧ / ∨ button on the remote control.



  You can also watch HDMI mode simply by pressing the **HDMI** button on the remote control.

❑ Edit Name

- **VCR** / **DVD** / **Cable STB** / **Satellite STB** / **PVR STB** / **AV Receiver** / **Game** / **Camcorder** / **PC** / **DVI PC** / **DVI** / **TV** / **IPTV** / **Blu-ray** / **HD DVD** / **DMA**

  You can name the device connected to the input jacks to make your input source selection easier.

  When a PC with a resolution of PS42B430: 640x480@60Hz, PS50B430: 640x480@60, 1280x720@60 is connected to the **HDMI IN 2(DVI)** port, you should set the **HDMI2/DVI** mode to **PC** in the **Edit Name** of the **Input** mode.

  When connecting an HDMI/DVI cable to the **HDMI IN 2 (DVI)** port, you should set the **HDMI2/DVI** mode to **DVI** or **DVI PC** in the **Edit Name** of the **Input** mode. In this case, a separate sound connection is required.

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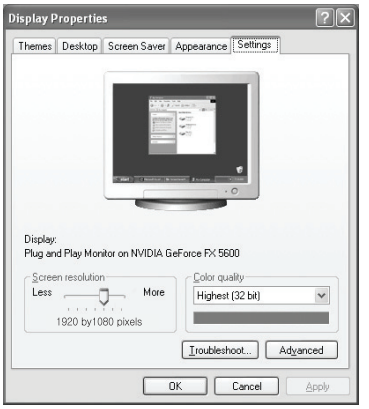
PC Display

❑ Setting Up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)



1. First, click on 'Control Panel' on the Windows start menu.
2. When the control panel window appears, click on 'Appearance and Themes' and a display dialog-box will appear.
3. When the control panel window appears, click on 'Display' and a display dialog-box will appear.
4. Navigate to the 'Settings' tab on the display dialog-box.

   The correct size setting (resolution)

   Optimum:
   - PS42B430 : 1024x768 pixels
   - PS50B430 : 1360x768 pixels

   If a vertical-frequency option exists on your display settings dialog box, the correct value is '60' or '60 Hz'. Otherwise, just click 'OK' and exit the dialog box.

❑ Display Modes

Both screen position and size will vary depending on the type of PC monitor and its resolution. The resolutions in the table are recommended.

HDMI/DVI Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)	PS42B430	PS50B430
IBM	640 x 350	31.469	70.086	25.175	+ / -	✓	✓
	720 x 400	31.469	70.087	28.322	- / +	✓	✓
MAC	640 x 480	35.000	66.667	30.240	- / -	✓	✓
	832 x 624	49.726	74.551	57.284	- / -	✓	✓
VESA DMT	640 x 480	31.469	59.940	25.175	- / -	✓	✓
		37.861	72.809	31.500	- / -	✓	✓
		37.500	75.000	31.500	- / -	✓	✓
	800 x 600	37.879	60.317	40.000	+ / +	✓	✓
		48.077	72.188	50.000	+ / +	✓	✓
		46.875	75.000	49.500	+ / +	✓	✓
	1024 x 768	48.363	60.004	65.000	- / -	✓	✓
		56.476	70.069	75.000	- / -	✓	✓
		60.023	75.029	78.750	+ / +	✓	✓
	1360 x 768	47.712	60.015	85.500	+ / +		✓
VESA CVT	720 x 576	35.910	59.950	32.750	- / +	✓	✓
	1280 x 720	56.456	74.777	95.750	- / +		✓
		44.772	59.855	74.500	- / +		✓
VESA GTF	1280 x 720	52.500	70.000	89.040	- / +		✓

- When using an HDMI/DVI cable connection, you must use the **HDMI IN 2(DVI)** jack.
- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.

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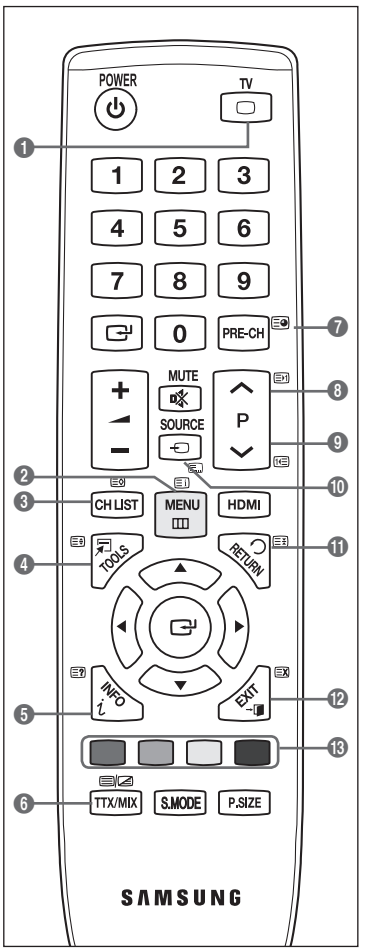
Recommendations for Use

Teletext Feature

Most television stations provide written information services via Teletext. The index page of the teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

For teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.



❶ **(exit)**

Exit from the teletext display.

❷ **(index)**

Used to display the index (contents) page at any time while you are viewing teletext.

❸ **(store)**

Used to store the teletext pages.

❹ **(size)**

Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.

❺ **(reveal)**

Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.

❻ **(teletext on/mix)**

Press to activate teletext mode after selecting the channel providing the teletext service. Press it twice to overlap the teletext with the current broadcasting screen.

❼ **(sub-page)**

Used to display the available sub-page.

❽ **(page up)**

Used to display the next teletext page.

❾ **(page down)**

Used to display the previous teletext page.

❿ **(mode)**

Press to select the teletext mode (LIST/FLOF). If you press it in the LIST mode, it switches into the List save mode. In the List save mode, you can save teletext page into list using the (store) button.

⓫ **(hold)**

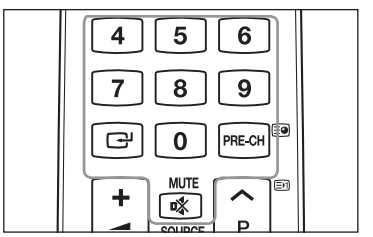
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.

⓬ **(cancel)**

Used to display the broadcast when searching for a page.

⓭ **Colour buttons (red/green/yellow/blue)**

If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.



You can change teletext pages by pressing the numeric buttons on the remote control.

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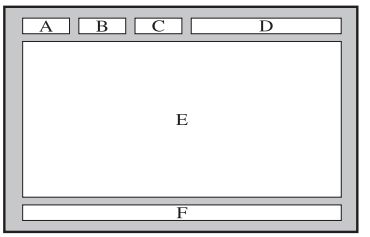
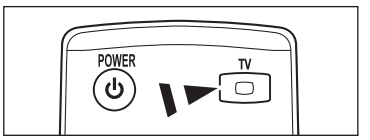
The teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information.
	FASTEXT information.



- Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
  - Entering the page number
  - Selecting a title in a list
  - Selecting a coloured heading (FASTEXT system)

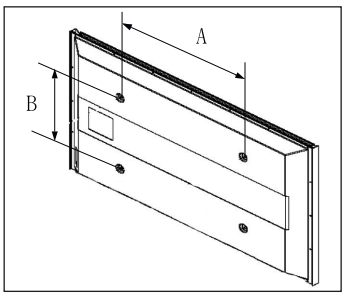


- Press the **TV** button to exit from the teletext display.

Wall Mount Kit Specifications (VESA)

Install your wall mount on a solid wall perpendicular to the floor.
When attaching to other building materials, please contact your nearest dealer.
If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

Product Family	inch	VESA Spec. (A * B)	Standard Screw	Quantity
LCD-TV	19" ~22"	100 * 100	M4	4
	23"~29"	200 * 100		
	30"~40"	200 * 200	M6	
	46"~55"	400 * 400	M8	
	57"~70"	800 * 400		
	80" ~	1400 * 800		
PDP-TV	42"~ 50"	400 * 400	M8	4
	58"~ 63"	600 * 400		6
	70" ~	800 * 400		4
	80" ~	1400 * 800		4



- We provided the standard dimensions for wall mount kits as shown in the table above.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not use screws that do not comply with the VESA standard screw specifications.
  Do not use fasten the screws too strongly, this may damage the product or cause the product to fall, leading to personal injury.
  Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Our 57” and 63” models do not comply with VESA Specifications. Therefore, you should use our dedicated wall mount kit for this model.
- Do not exceed 15 degrees tilt when mounting this TV.

> Do not install your Wall Mount Kit while your TV is turned on.
> It may result in personal injury due to electric shock.

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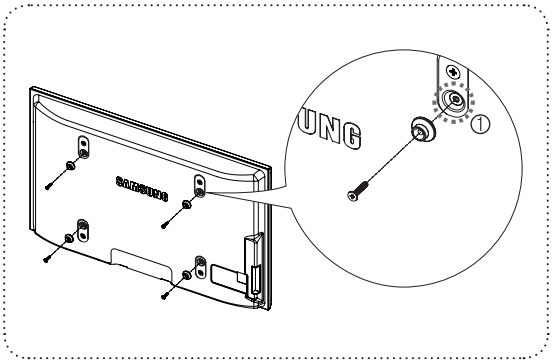
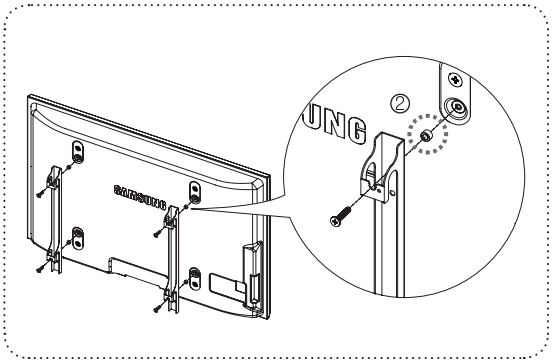
Preparing before installing Wall- Mount on the wall

Case A. Installing the SAMSUNG Wall-Mount



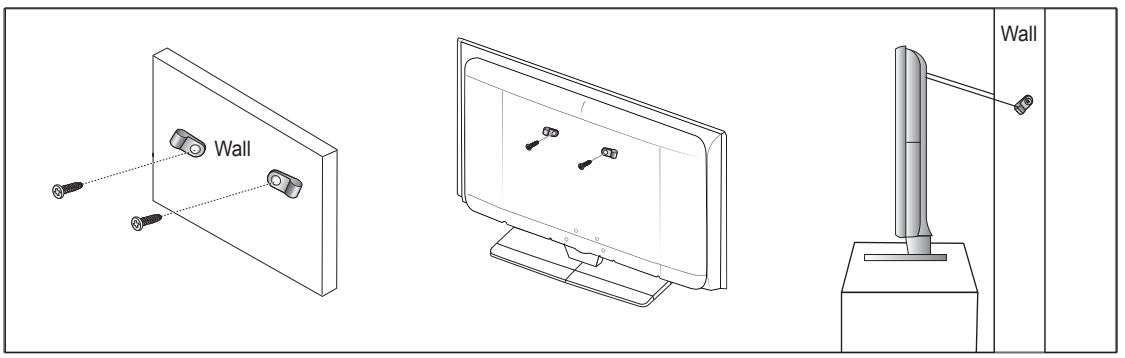
Case B. Installing another company's Wall-Mount



1. Install the Wall Mount with a torque range of 15kgf·cm or less. Use care as the parts can be damaged if the torque is out of the specified range.
2. Accessory Kit contains Holder–Ring [②] for installing other company's Wall-Mount on Samsung TV. (Case B)
   - Screw down the hole [①] when installing wall-mount on the wall.

Securing the TV to the Wall

Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.



To avoid the TV from falling

1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
   - You may need additional material such as an anchor depending on the type of wall.
   - Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.
2. Remove the screws from the center back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
   - Screws may not be supplied with the product.
3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.
   - Install the TV near to the wall so that it does not fall backwards.
   - It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
   - Untie the string before moving the TV.
4. Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections,contact a professional installer.

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Troubleshooting

Before contacting the Samsung after-sales service, perform the following simple checks.
If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture	• Check that the mains lead has been connected to a wall socket. • Check that you have pressed the button on your set. • Check the picture contrast and brightness settings. • Check the volume. • Check if **Select Speaker** is set to **External Speaker**.
Normal picture but no sound	• Check the volume. • Check whether the **MUTE** button has been pressed on the remote control.
No picture or black and white picture	• Adjust the colour settings. • Check that the broadcast system selected is correct.
Sound and picture interference	• Try to identify the electrical appliance that is affecting the television, then move it further away. • Plug the television into a different main socket.
Blurred or snowy picture, distorted sound	• Check the direction, location and connections of your aerial. • This interference often occurs due to the use of an indoor aerial.
Remote control malfunctions	• Replace the remote control batteries. • Clean the upper edge of the remote control (transmission window). • Check that the **+** and **–** ends of the batteries are inserted correctly. • Check that the batteries are drained.
Screen is black and power indicator light blinks steadily	• On your computer check; Power, Signal Cable. • Move the computer's mouse or press any key on the keyboard. • On your equipment check (STB, DVD, etc) ; Power, Signal Cable. • The TV is using its power management system. • Press the Source button on the panel or remote control. • Turn the TV off and on.
The damaged picture appears in the corner of the screen.	• If **Screen Fit** is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV.
The "Resets all settings to the default values" message appears.	• This appears when you press and hold the **EXIT** button for a while. The product settings are reset to the factory defaults.

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Specifications

The descriptions and characteristics in this booklet are given for information purposes only and are subject to modification without notice.

Model Name	PS42B430	PS50B430
Screen Size (Diagonal)	42 inch	50 inch
PC Resolution (Optimum)	1024 x 768 @ 60 Hz	1360x768 @ 60 Hz
Sound (Output)	10 W x 2	10 W x 2
Dimension (WxHxD)		
Body	1055 x 667 x 73 mm	1230 x 756 x 73 mm
With stand	1055 x 729 x 316 mm	1230 x 817 x 316 mm
Weight		
Body	24 kg	32 kg
With stand	28 kg	36 kg
Environmental Considerations		
Operating Temperature	50 °F to 104 °F (10 °C to 40 °C)	
Operating Humidity	10% to 80%, non-condensing	
Storage Temperature	-4 °F to 113 °F (-20 °C to 45 °C)	
Storage Humidity	5% to 95%, non-condensing	

- This device is a Class B digital apparatus.
- Design and specifications are subject to change without prior notice.
- For the power supply and Power Consumption, refer to the label attached to the product.
- When using an HDMI/DVI cable connection, you must use the HDMI IN 2(DVI) jack.

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